

Simulation of thermophysical processes in residential storey buildings

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Abstract

© Research India Publications. Performing thermophysical modeling of processes of heatwind conditions in urban design allows setting the amount of convective-radiative heat flow, which comes from heating of the active surface and goes into the air. Knowing these values allows the possibility of taking appropriate design considerations in the human breathing zone for creating conditions for thermal comfort.

Keywords

Grashof criterion, Humid-warm conditions, Radiant and convective heat transfer, The active surface, The Nusselt number, Urban planning